

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** INNOSOL

**Recommended use of the chemical and restrictions on use**

**Recommended use** Degreaser  
**Restrictions on use** For industrial use only

**Supplier details**

West Penetone Inc.  
 11411-160 Street  
 Edmonton, AB,  
 T5M3T7  
 Tel: 780-454-3919

**Emergency Telephone Number**

Canutec (613)-996-6666

## 2. HAZARDS IDENTIFICATION

**Classification**

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitizer	Category 1
Specific target organ toxicity – single exposure	Category 3
Aspiration hazard	Category 1
Hazardous to the aquatic environment, acute hazard	Category 3

**Label Elements**

**DANGER**

**Hazard Statements**

Flammable liquid and vapor  
 Causes skin irritation  
 Causes serious eye irritation  
 May cause an allergic skin reaction  
 May cause respiratory irritation  
 May be fatal if swallowed and enters airways  
 Harmful to aquatic life



**Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Keep container tightly closed.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Wash face, hands and any exposed skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: get medical advice/attention. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

In case of fire: Use carbon dioxide, foam or dry chemical to extinguish.

#### **Precautionary Statements - Storage**

Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
fatty acids, canola, methyl esters	129828-16-6	30-60
ethyl (S)-2-hydroxy propanoate	687-47-8	15-40
d-limonene	5989-27-5	5-10
alcohols, C9-C11, ethoxylated	68439-46-3	3-7
poly(oxy-1,2-ethanediyl),alpha-undecyl-omega-hydroxy-	34398-01-1	1-5

### **4. FIRST AID MEASURES**

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
<b>Skin contact</b>	Wash with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### **Most important symptoms and effects, both acute and delayed**

Contact with eyes may cause serious irritation leading to discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva, and blurred vision. Contact with skin may cause irritation with local redness and aggravate previous medical skin conditions. Contact may also cause an allergic skin reaction with prolonged or repeated exposure. Inhalation of mist/vapors/spray may cause respiratory tract irritation leading to a temporary burning sensation of the nose and throat, coughing, and difficulty breathing. High concentrations may cause central nervous system depression leading to headaches, dizziness, and nausea. Ingestion may cause irritation or a burning sensation of the mouth and throat and abdominal pain. Ingestion may cause pneumonitis if aspirated into lungs.

#### **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

High-volume water jet.

**Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed including oxides of carbon and other irritating gases.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment.

**Environmental Precautions**

Avoid discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush the area with plenty of water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling**

**Handling** Avoid contact and inhalation of mist/vapors/spray. Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place, away from incompatible materials.

**Incompatible Materials** Acids, strong oxidizing agents

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
d-limonene 5989-27-5	TWA: 30 ppm/165.5 mg/m <sup>3</sup> (AIHA)	Not available	Not available

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be made available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Safety glasses with side shields or goggles.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory Protection** Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE :</b> Clear, yellow liquid	<b>VAPOR PRESSURE, mm Hg AT 20°C :</b> Not available
<b>ODOR</b> Citrus	<b>VAPOR DENSITY (Air = 1) :</b> Not available
<b>ODOR THRESHOLD :</b> Not applicable	<b>RELATIVE DENSITY AT 20°C:</b> 0.925-0.930
<b>pH :</b> Not applicable	<b>SOLUBILITY IN WATER :</b> Forms emulsion
<b>MELTING POINT / FREEZING POINT :</b> Approx. -5°C	<b>PARTITION COEFFICIENT, N-OCTANOL/WATER :</b> Not available
<b>BOILING POINT/BOILING RANGE :</b> Not available	<b>AUTO-IGNITION TEMPERATURE :</b> Not available
<b>FLASH POINT :</b> 59°C (TCC), 72°C (COC)	<b>DECOMPOSITION TEMPERATURE:</b> Not available
<b>EVAPORATION RATE, water = 1 :</b> Not available	<b>VISCOSITY:</b> Not available
<b>FLAMMABILITY (SOLID, GAS):</b> Not applicable	<b>FLAMMABLE LIMITS :</b> <b>UPPER:</b> Not available <b>LOWER :</b> Not available

**10. STABILITY AND REACTIVITY****Reactivity**

Not reactive.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid**

Avoid all sources of ignition: heat/open flame/hot surfaces. Store away from incompatible materials.

**Incompatible Materials**

Acids, strong oxidizing materials.

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to release of irritating gases and vapors such as oxides of carbon as well as other low molecular weight hydrocarbons.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

**ATE<sub>mix</sub>** – LD50 oral – approx.  $\geq 3377$  mg/kg (rat), LD50 dermal – approx.  $\geq 4042$  mg/kg (rabbit)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
fatty acids, canola, methyl esters 129828-16-6	>5000 mg/kg (rat)	>5000 mg/kg (rabbit)	Not listed
ethyl (S)-2-hydroxy propanoate 687-47-8	2500 mg/kg (mouse)	Not listed	>5400 mg/m <sup>3</sup> (rat) – 8 h
d-limonene 5989-27-5	4400 mg/kg (rat)	>5000 mg/kg (rabbit)	Not listed
alcohols, C9-C11, ethoxylated 68439-46-3	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed
poly(oxy-1,2-ethanediyl),alpha-undecyl-omega-hydroxy- 34398-01-1	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed

**Information on likely sources of exposure****Inhalation**

May cause respiratory irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Skin corrosion/irritation**

Causes skin irritation, possible sensitization and dermatitis.

**Ingestion**

May be harmful if swallowed

**Delayed and immediate effects and also chronic effects from short and long-term exposure**

<b>Respiratory or skin sensitization</b>	d-limonene (CAS 5989-27-5)	1	May cause an allergic skin reaction
<b>Germ cell mutagenicity</b>	No information available.		
<b>Carcinogenicity</b>	No information available		
<b>Reproductive toxicity</b>	No information available		
<b>STOT - single exposure</b>	CAS 687-47-8, 5989-27-5	3	May cause respiratory irritation
<b>STOT - repeated exposure</b>	No information available		
<b>Aspiration Hazard</b>	CAS 129828-16-6, 5989-27-5	1	May be fatal if swallowed and enters airways

**Symptoms related to the physical, chemical and toxicological characteristics**

See Section 2 & 4.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Fish	Waterflea	Algae
Innosol	53 mg/L: 96 h rainbow trout LC50	Not available	Not available

**Persistence and degradability**

Expected to be readily biodegradable.

**Bioaccumulative potential**

Accumulation in organisms is not to be expected.

**Mobility in soil**

No information available

**Other adverse effects**

Do not release untreated into natural waters. No other adverse environmental effects are expected.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION**

**TDG classification**

UN 3295, Hydrocarbons, Liquid, N.O.S. (fatty acids, canola, methyl esters), Class 3, PG III

**15. REGULATORY INFORMATION**

All ingredients are listed on the DSL

**16. OTHER INFORMATION**

**Preparation Date**

24 November, 2016

**Revision Date**

not applicable

**Revision Note**

not applicable

**Disclaimer**

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**End of SDS**